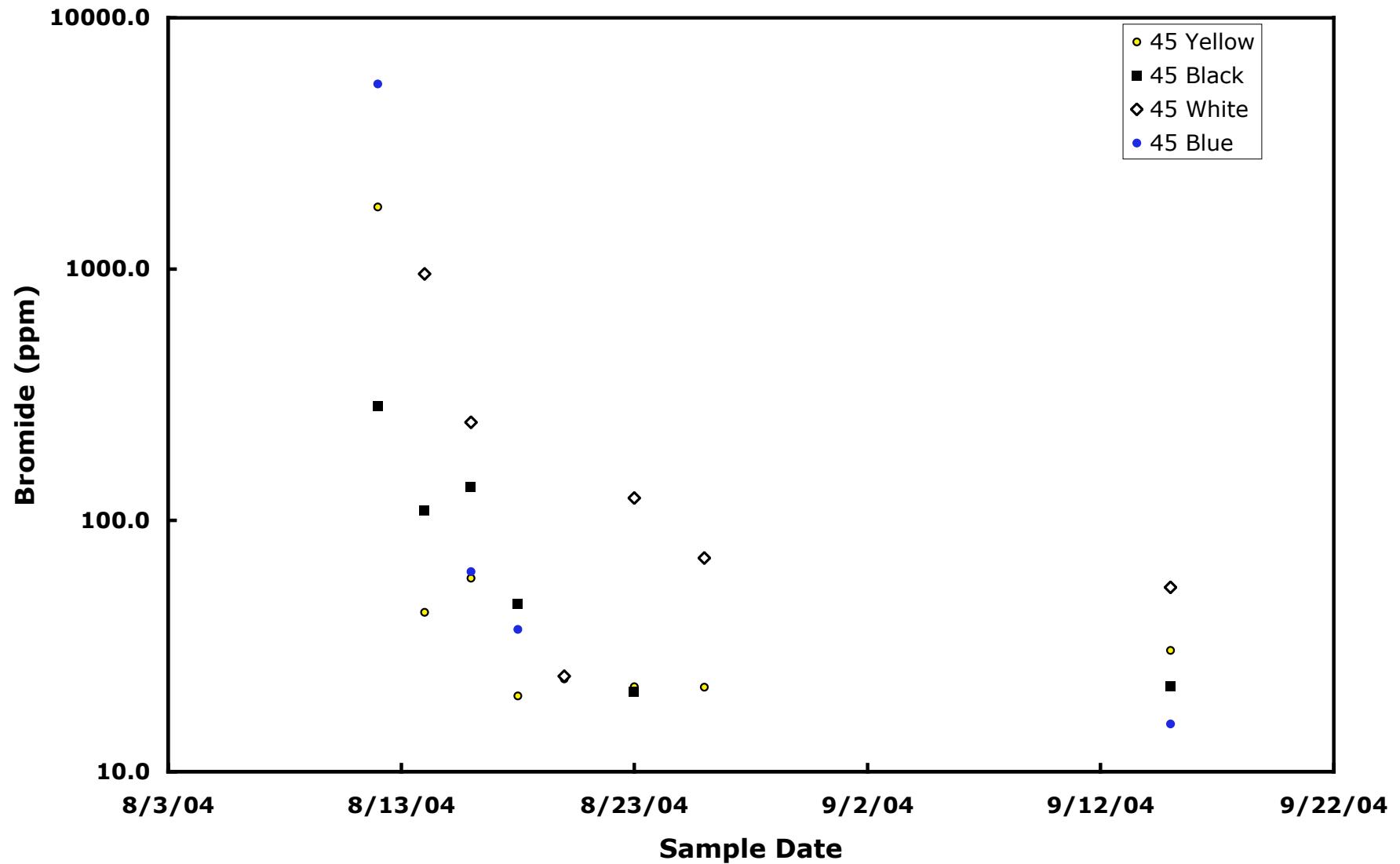


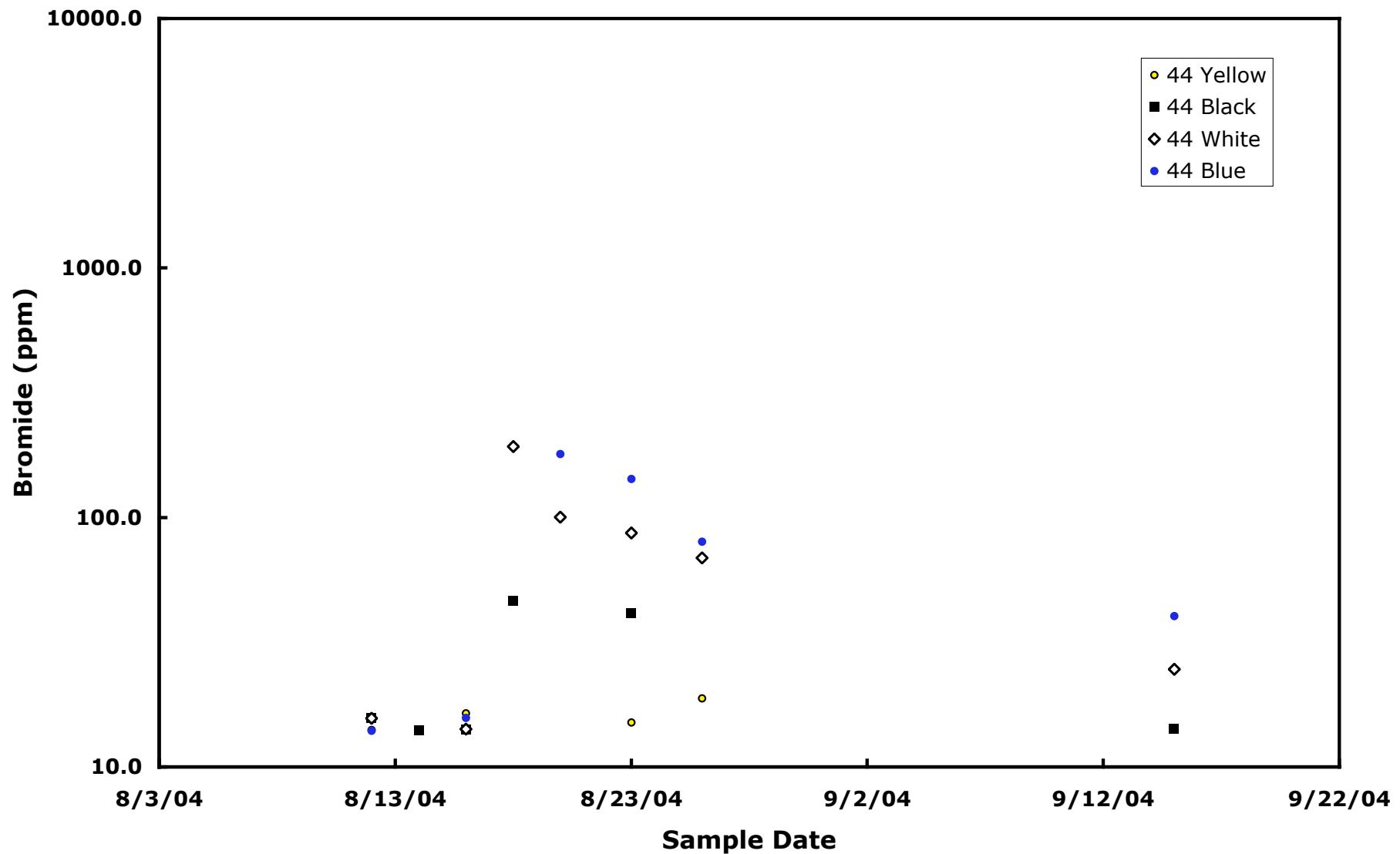
Anion Chemistry of Monitoring Samples

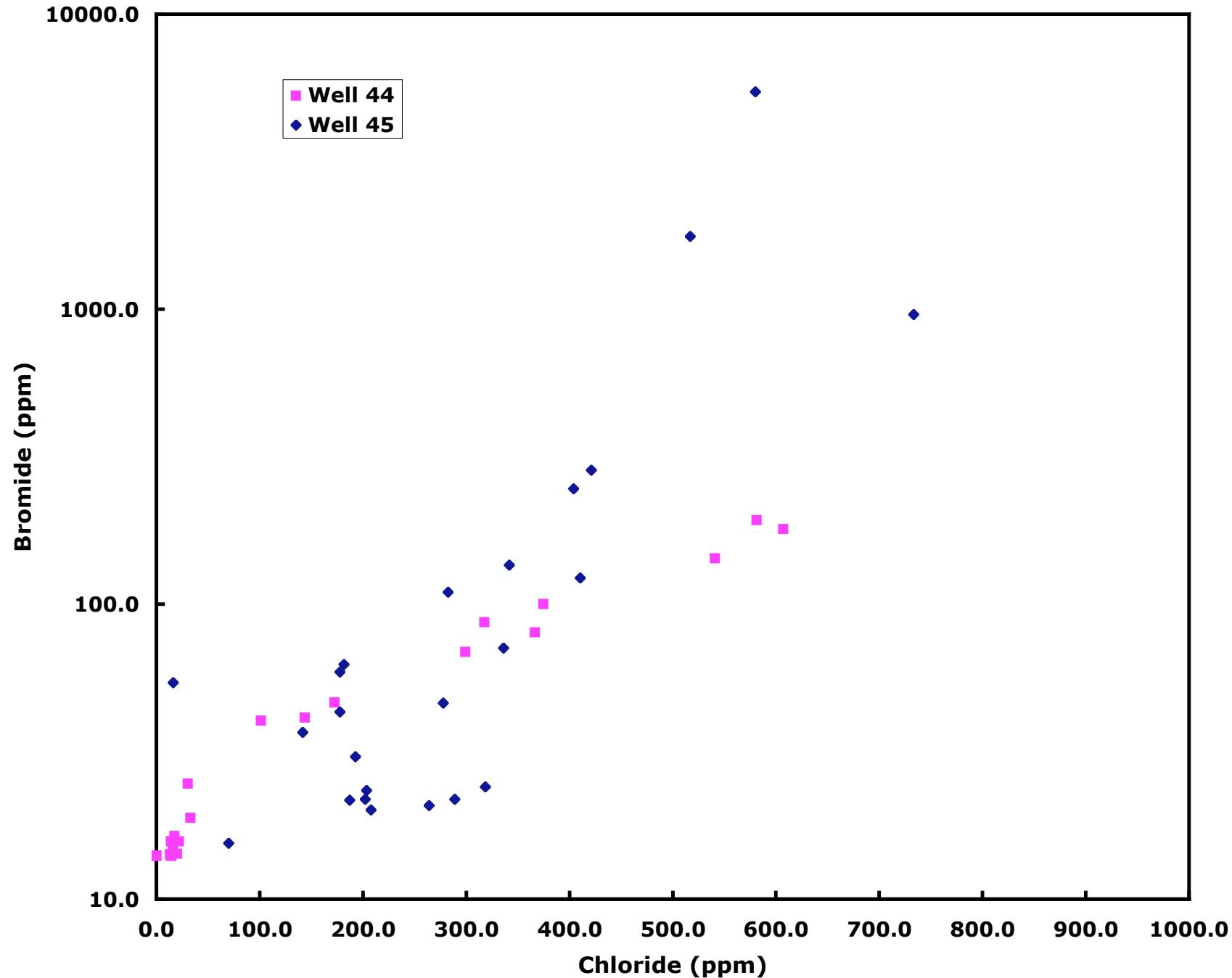
- Bromide - Conservative tracer added to injectate.
- Chloride - Conservative tracer. Source?
- Acetate - Byproduct of microbial metabolism of HRC.
Phosphate - Source?
- Nitrate - Decrease indicates denitrifying (anaerobic) conditions necessary for metal reduction.
- Sulfate - Sulfur reduction indicates low redox conditions (< metal reduction).
- Phosphate - Source?

Well 45 - Injection Well

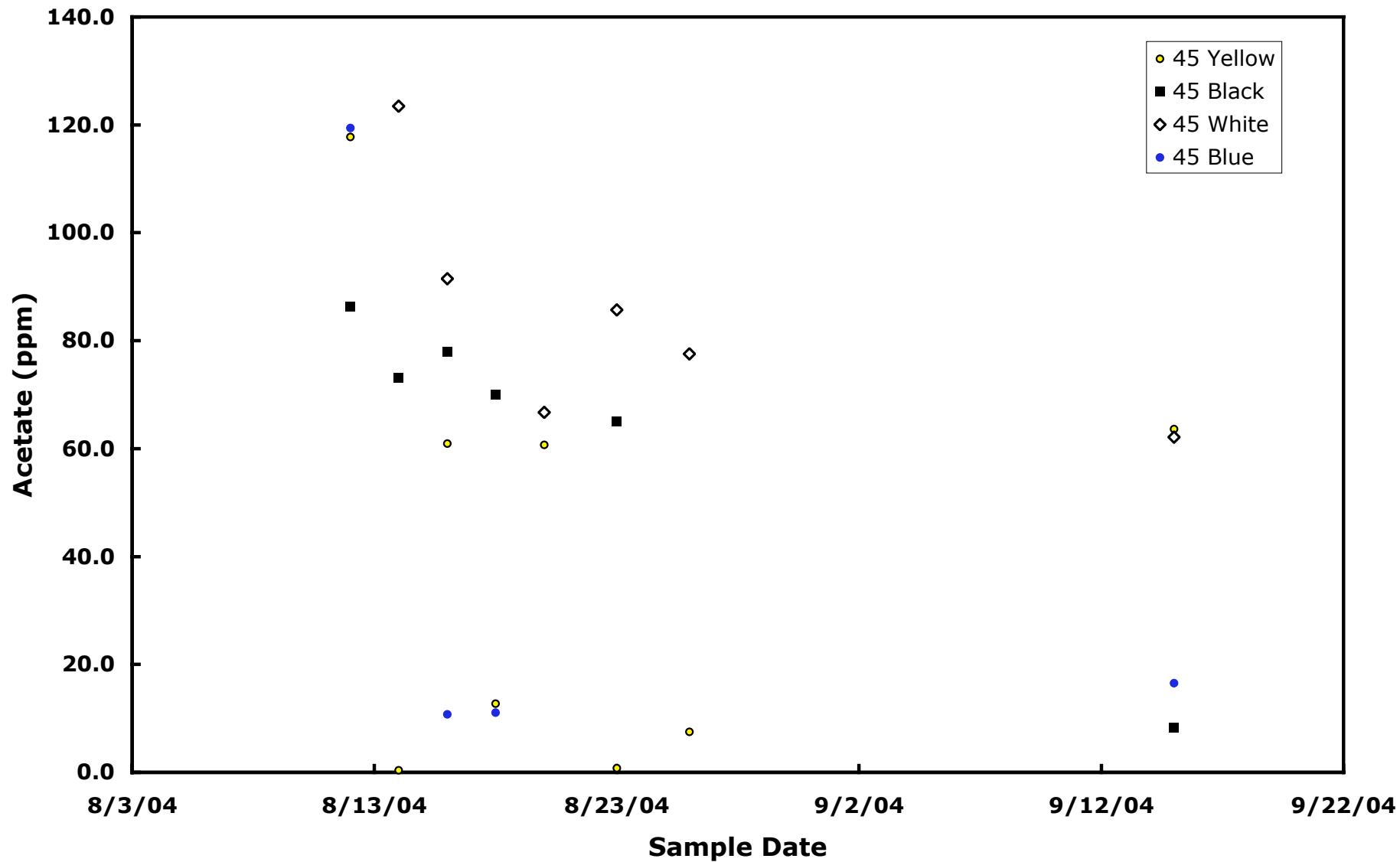


Well 44 - Down-gradient Monitoring Well

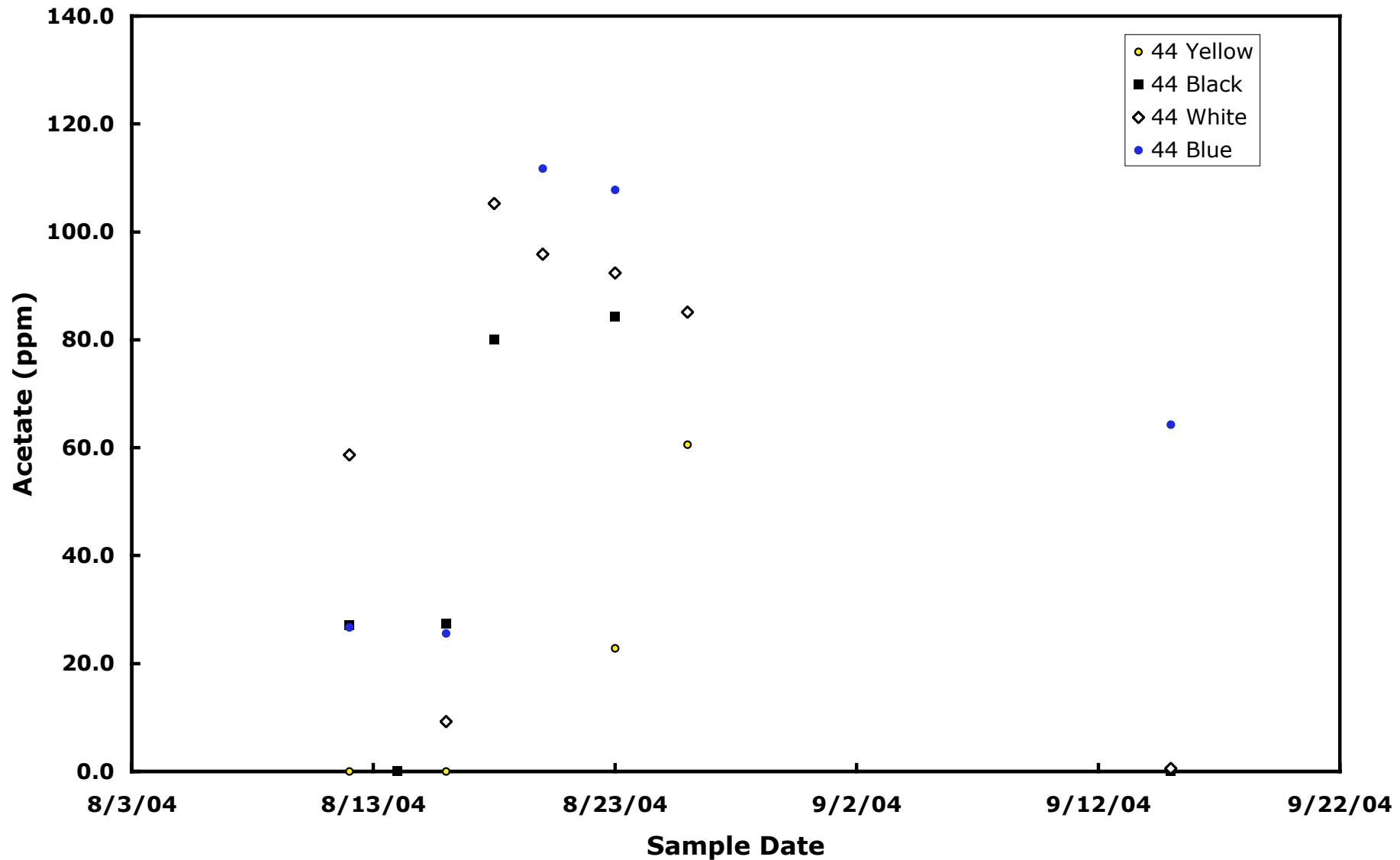




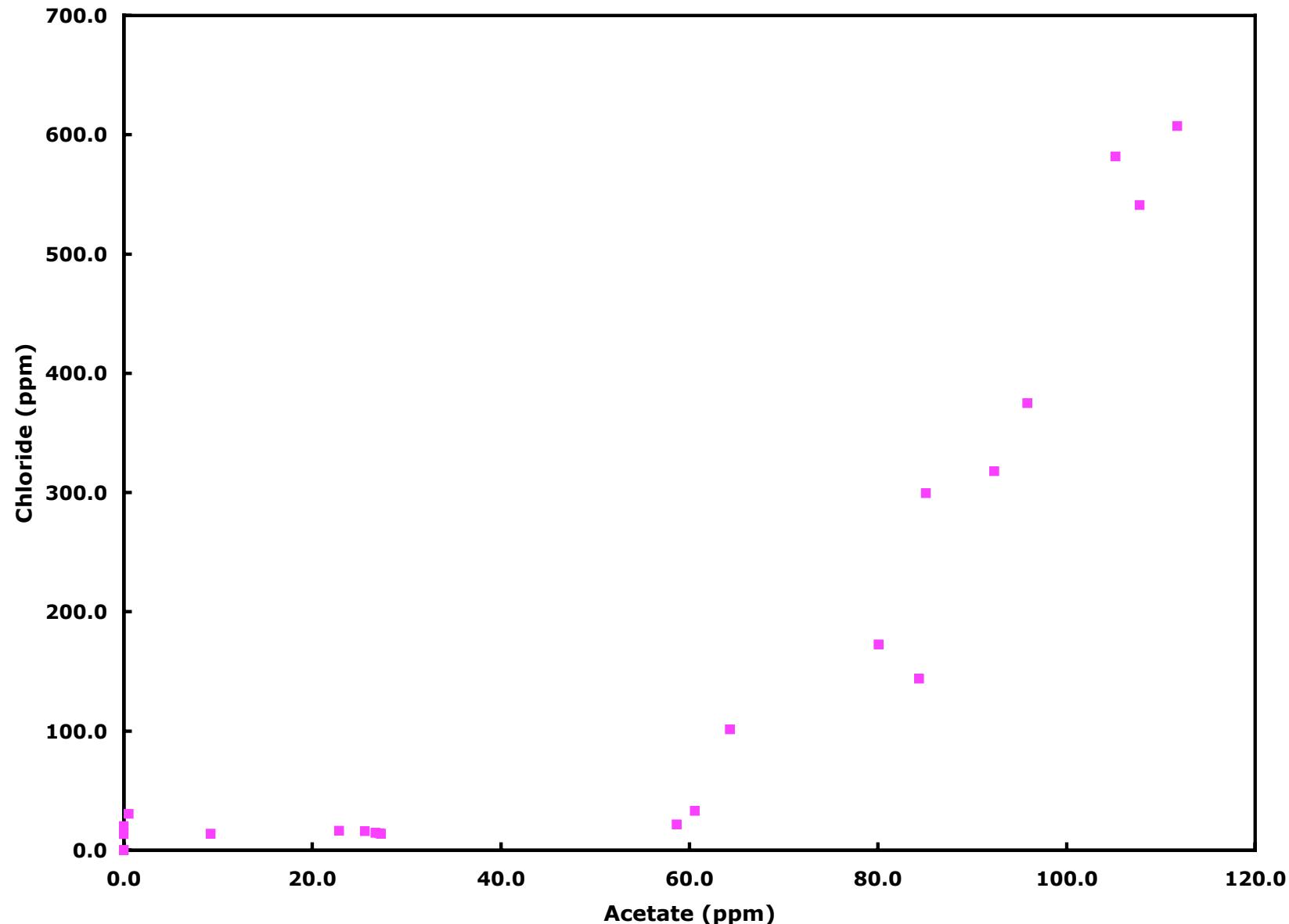
Well 45



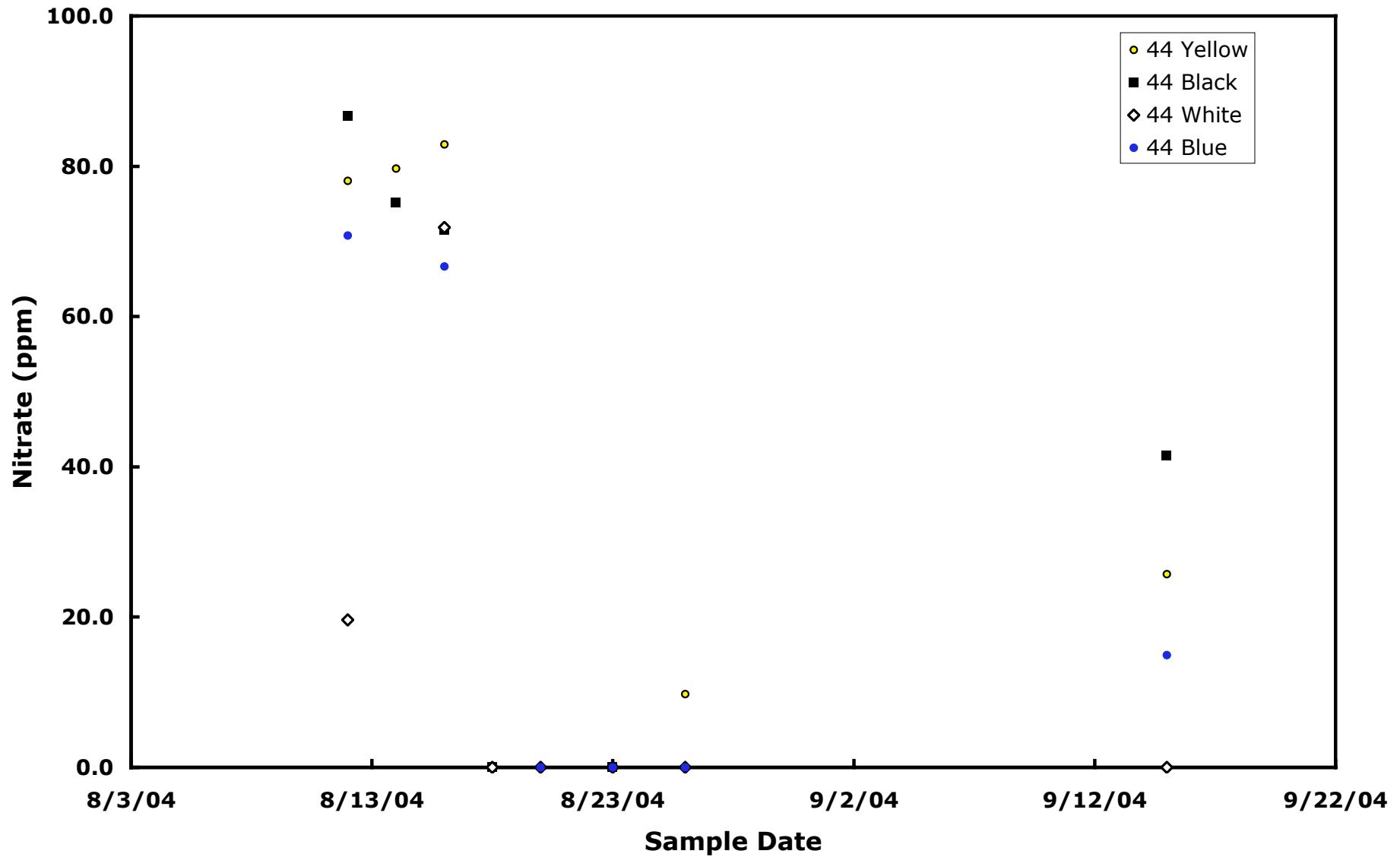
Well 44



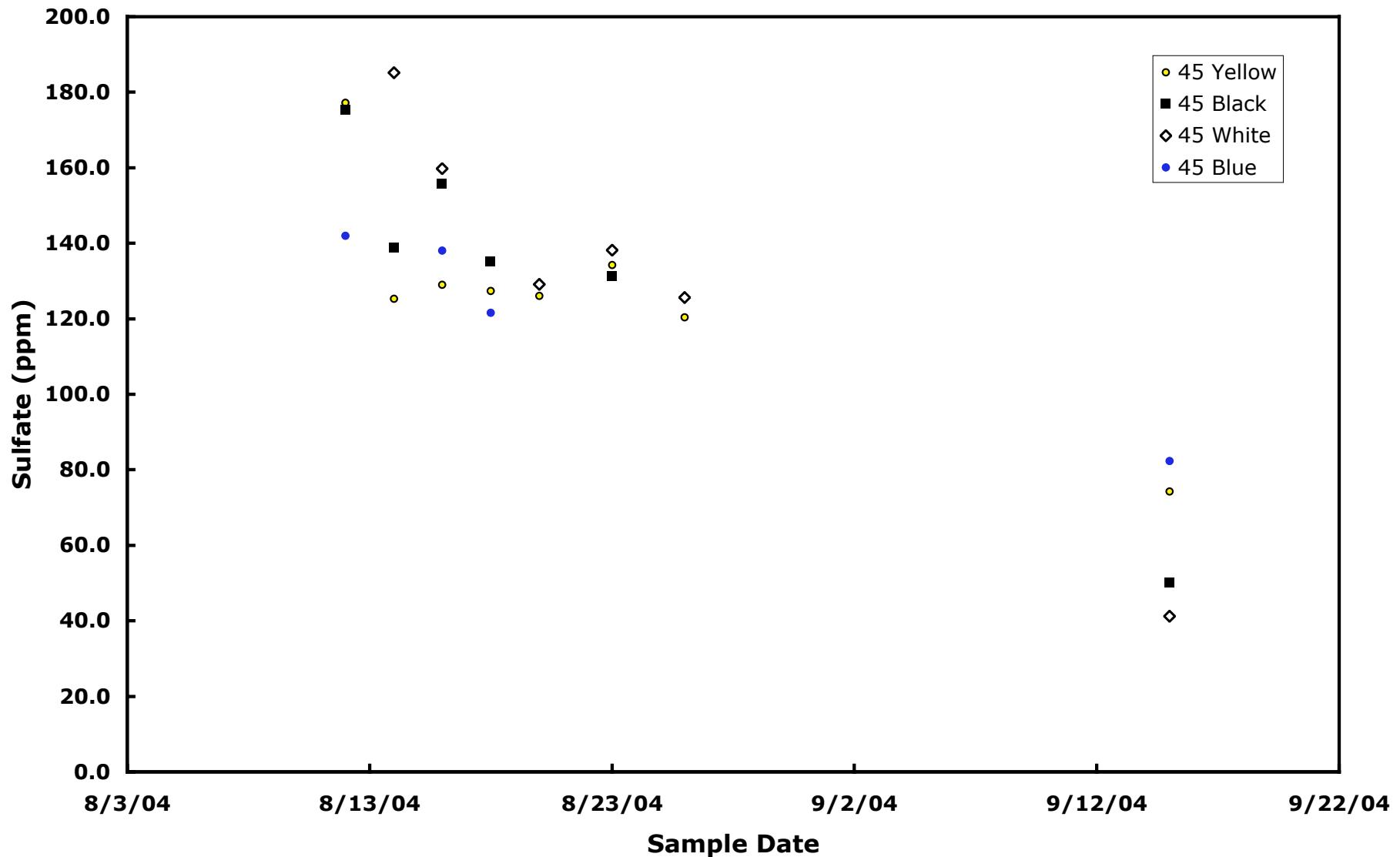
Well 44



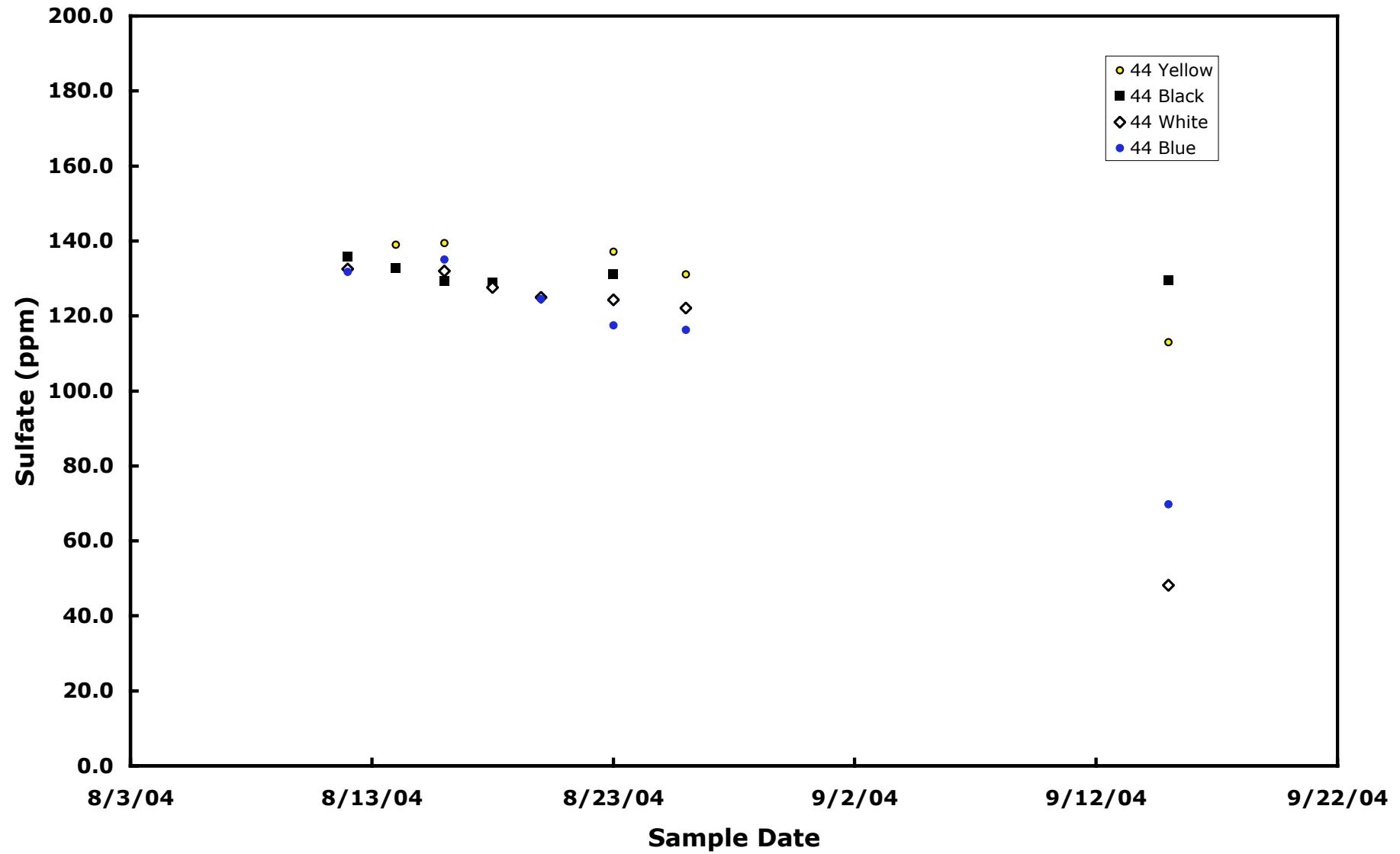
Well 44



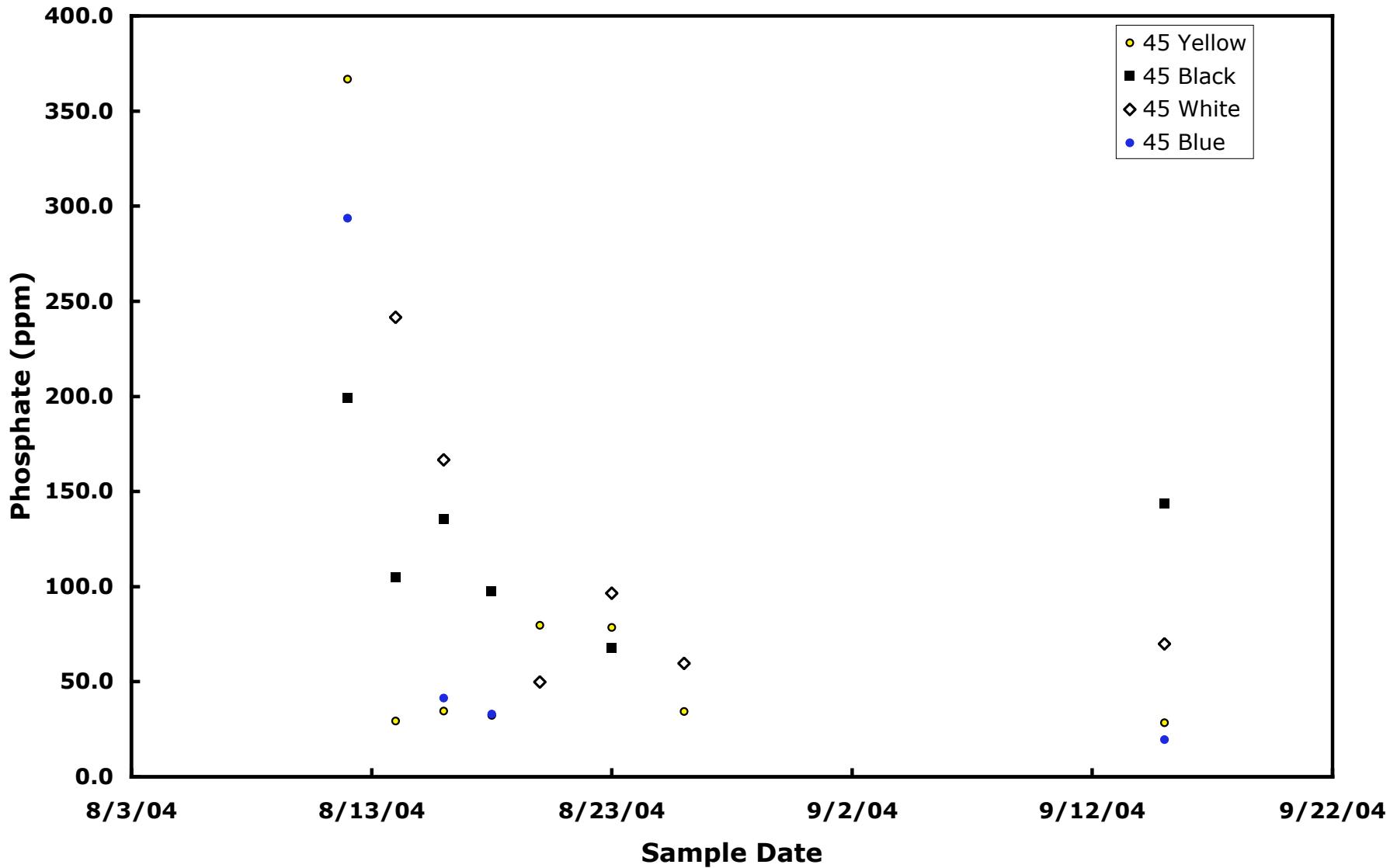
Well 45



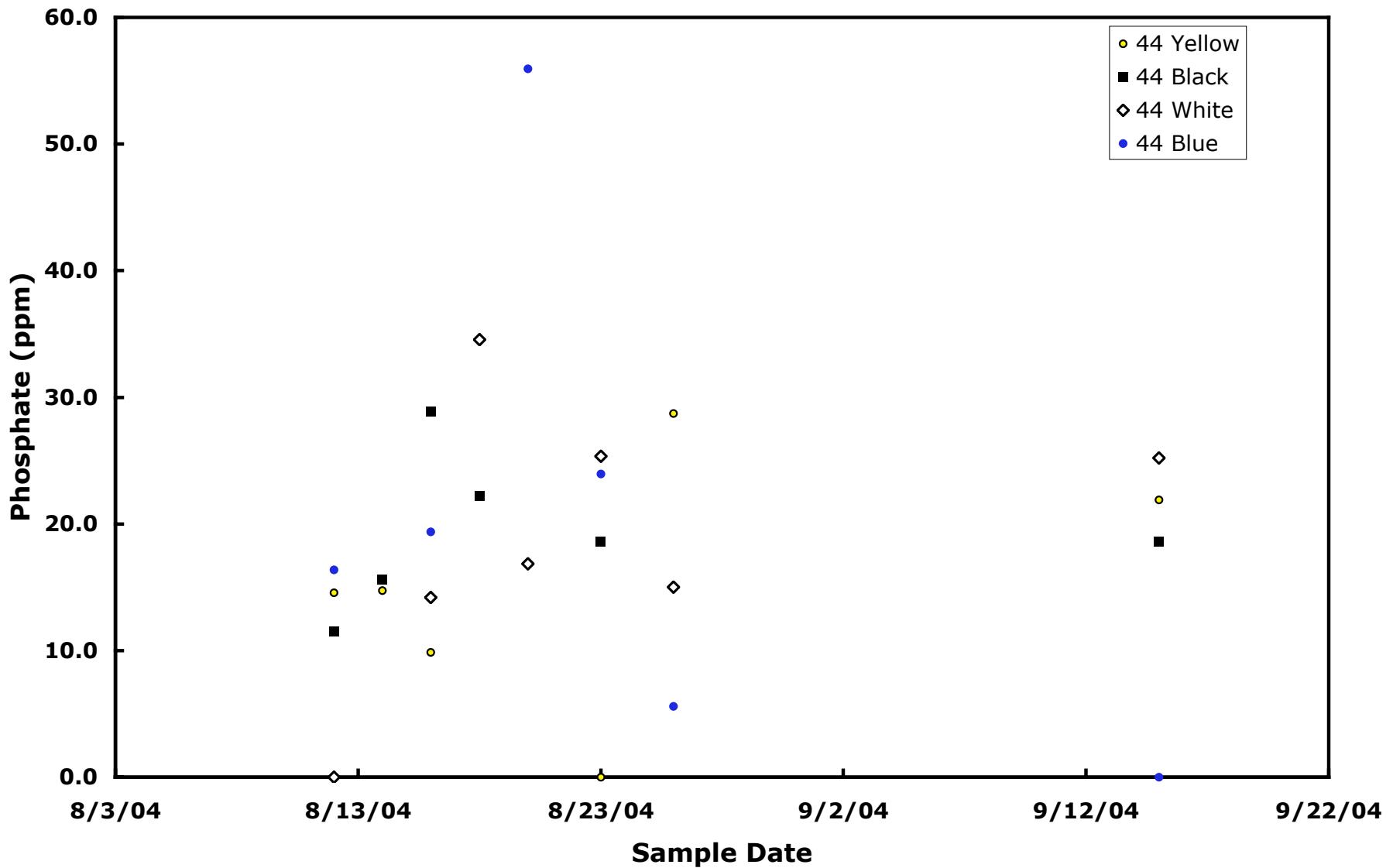
Well 44



Well 45



Well 44



Chemistry Summary

1. Bromide concentrations peak in well 44 between 15 and 18 days after injection of the HRC
2. There is a source of chloride associated with the injected HRC.
3. Acetate is dropping but not gone by September 15 (6 weeks after HRC injection).
4. Nitrate disappears when bromide/acetate peak but is beginning to rebound by September 15.
5. There may be a slight increase in sulfate in the injection well (from HRC?).
6. Sulfate is just beginning to decrease on September 15.
7. Phosphate is very high and appears to be associated with the HRC.